

Response
Serial No. 10/631,821
Attorney Docket No. 030920

REMARKS

Claims 1 and 2 are pending in the present application and are rejected.

Applicant's Response to Claim Rejections under 35 U.S.C. §103

Claims 1 and 2 were rejected under 35 U.S.C. §103(a) as being unpatentable over Hogdahl et al. (U.S. Patent No. 5,264,992) in view of Klein et al. (U.S. Publication No. 2002/0190956).

It is the position of the Office Action that **Hogdahl** discloses the invention as claimed, with the exception of a converter for converting the position signal output from the digitizer to a digital signal. The Office Action relies on **Klein** to provide this teaching.

Hogdahl discloses a modular computer system having a workslate unit 12 which attaches to base unit 14. Workslate unit 12 includes a front section 44 and a rear section 46. Front section 44 includes an LCD panel 60 and a digitizer 62. Signals from digitizer 60 are output through electrical connection 114. See Figure 5A. Rear section 46 includes motherboard 124 and other components. See Figure 5B.

Figure 14 illustrates the functional structure of the digitizer 62. Electromagnetic field 776 from the stylus is outputted onto a matrix of rows 760 and columns 762. The column and row signals are amplified by amplifiers 774, 772, 777, 768, 766, and 764. Column signals are decoded in column decoder 778, and row signals are decoded in row decoder 783. Finally, the decoded column and row signals are output to converter 780 which converts the signals from parallel to serial. The signals are then output to the motherboard 124. Please see column 11,

Response
Serial No. 10/631,821
Attorney Docket No. 030920

lines 34-54. **Hogdahl** does not disclose an analog-to-digital converter (ADC) for the signal output from the digitizer 62.

Klein discloses a universal remote controller having upper housing 12 and lower housing 13. LCD 24 and display module 180 are disposed in upper housing 12. See Figure 2. Figure 3 illustrates the functional structure of the remote control. As noted by the Examiner, **Klein** discloses that operating circuitry 100 includes an ADC and touch decoder 170, among other components. However, **Klein** does not disclose whether the operating circuitry 100 including the ADC and touch decoder 170 are disposed in the upper housing 12 or the lower housing 13. It is the position of the Office Action that it would have been obvious to modify the digitizer 62 of **Hogdahl**, which is disposed in the front section 44, by adding the ADC converter of **Klein**.

In response, Applicants first respectfully submit that there is no suggestion or motivation to combine the references. **Hogdahl** does not disclose or suggest the need for an ADC converter, or the potential benefits of the inclusion of an ADC converter. **Hogdahl** discloses outputting a serial signal from the converter 780 to motherboard 124. No ADC converter is required, and the inclusion of such an ADC converter would further complicate the device of **Hogdahl**. Thus, one having ordinary skill in the art would not have been motivated to include an ADC converter.

Even if an ADC converter were to be included, the combination of references does not disclose the claimed portable information terminal. Claim 1 requires an upper section including a converter. Because **Klein** does not disclose the location of the ADC, a combination of **Hogdahl** and **Klein** does not disclose an ADC converter located in the upper section, as required by claim 1.

Response
Serial No. 10/631,821
Attorney Docket No. 030920

In fact, **Hogdahl** actually teaches away from including a converter in the front section 44, as required by claim 1. Since serial signals are outputted from converter 780 of the digitizer 62 to the motherboard 124 in the rear section 46, if an ADC converter were to be included, one having ordinary skill in the art would have been motivated to include it on the motherboard 124, which is located in the rear section 46.

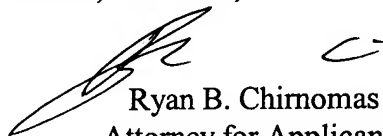
For at least the foregoing reasons, the claimed invention distinguishes over the cited art and defines patentable subject matter. Favorable reconsideration is earnestly solicited.

Should the Examiner deem that any further action by applicants would be desirable to place the application in condition for allowance, the Examiner is encouraged to telephone applicants' undersigned agent.

If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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